

Appl. No. 09/683,208
Amdt. dated 10/08/2003
Reply to Office action of 04/08/2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An optical seal comparator, comprising: a) a splitter mirror, which making partial penetration and reflection of image; b) a mirror, which making total reflection of image; c) a first light source, which illuminates first seal pattern for first image; ~~and~~ d) a second light source, which illuminates second seal pattern for second image; wherein the splitter mirror and mirror formed an optical path, the splitter mirror at an inclined angle of 45 degree in the said optical path, the first image goes to splitter mirror, is the same as the optical distance of second image goes to mirror, then being reflected to splitter mirror, an operator is able to observe the first image and second image, both images are presented on the same optical plane.

Claim 2 (canceled)

Claim 3 (currently amended): An optical seal comparator ~~in accordance with claim 1,~~ wherein said, comprising: a) a splitter mirror, which making partial penetration and reflection of image; b) a mirror, which making total reflection of image; c) a first light source, which illuminates first seal pattern for first image; d) a second light source, which illuminates second seal pattern for second image; wherein the splitter mirror and mirror formed an optical path, the splitter mirror at an inclined angle of 45 degree in the said optical path, the first image goes through splitter mirror to mirror, then being reflected to splitter mirror, is the same as the optical distance of second image goes to splitter mirror, an operator is able to observe the first image and second image, both images are presented on the same optical plane.

Claim 4 (currently amended): An optical seal comparator in accordance with claim 1, further comprising: a) a first lens, which place between first seal pattern and splitter mirror; b) a second lens, which place between second seal pattern and splitter mirror; wherein the first image goes through first lens, then to splitter mirror, is the same as the optical distance of second image goes through second lens, to mirror, then being reflected to splitter mirror.

Claim 5 (canceled)

Claim 6 (currently amended): An optical seal comparator in accordance with claim [4] 3, further comprising: a) a first lens, which place between first seal pattern and splitter mirror; b) a second lens, which place between second seal pattern and splitter mirror; wherein said first

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image goes through first lens, splitter mirror, to mirror, then being reflected to splitter mirror, is the same as the optical distance of second image goes through second lens, then to splitter mirror, an operator is able to observe the first image and second image, both images are presented on the same optical plane.

Claim 7 (currently amended): An optical seal comparator in accordance with claim [4] 6, furthermore comprising a third lens, a fourth lens, and a fifth lens, wherein said first image goes through first lens, splitter mirror, third lens, to mirror, then being reflected back to third lens, then to splitter mirror, is the same as the optical distance of second image goes through second lens, fifth lens, fourth lens, then to splitter mirror.

Claim 8 (currently amended): An optical seal comparator ~~in accordance with claim 1, further comprising a second mirror, wherein said,~~ comprising: a) a splitter mirror, which making partial penetration and reflection of image; b) a mirror, which making total reflection of image; c) a first light source, which illuminates first seal pattern for first image; d) a second light source, which illuminates second seal pattern for second image; and e) a second mirror; wherein the splitter mirror and mirror formed an optical path, the splitter mirror at an inclined angle of 45 degree in the said optical path, the first image goes to splitter mirror, then being reflected to mirror, then being reflected back to splitter mirror, is the same as the optical distance of second image goes to second mirror, then being reflected to splitter mirror, an operator is able to observe the first image and second image, both images are presented on the same optical plane.

Claim 9 (currently amended): An optical seal comparator in accordance with claim [1] 8, further comprising a first lens, a second lens and third lens, wherein said first image goes through first lens, to splitter mirror, then being reflected to mirror, then being reflected back to splitter mirror, then to third lens, is the same as the optical distance of second image goes through second lens, to second mirror, then being reflected to splitter mirror, then being reflected to third lens.

Claim 10 (currently amended): An optical seal comparator ~~in accordance with claim 1, further comprising a second splitter mirror and a second mirror, wherein said,~~ comprising: a) a splitter mirror, which making partial penetration and reflection of image; b) a mirror, which making total reflection of image; c) a first light source, which illuminates first seal pattern for first image; d) a second light source, which illuminates second seal pattern for second image; and e) a second splitter mirror and a second mirror; wherein the splitter mirror and mirror formed an optical path, the splitter mirror at an inclined angle of 45 degree in the said optical path, the first image goes through first splitter mirror, to second splitter mirror, then being reflected to mirror, then being reflect back to second splitter mirror, then being reflected to splitter mirror, is the same as the optical distance of second image goes to second mirror, then being reflected from there goes through second splitter mirror, to mirror then being reflected back to second splitter mirror, then being reflect to splitter mirror, an operator is able to observe the first image and second image, both images are presented on the same optical

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plane.

Claim 11 (currently amended): An optical seal comparator in accordance with claim 10, ~~furthermore~~ further comprising a first lens, a second lens, and a third lens, wherein said first image goes through first lens, splitter mirror, to second splitter mirror, then being reflected from there goes through third lens, to mirror and then being reflect back to second splitter mirror, then being reflected to splitter mirror, is the same as the optical distance of second image goes through second lens, to second mirror, then being reflected from there goes through second splitter mirror, third lens, to mirror and being reflected back to second splitter mirror, then being reflect to splitter mirror.

Claim 12 (currently amended): An optical seal comparator in accordance with claim 11, wherein said third lens moves along the ~~optic~~ optical axis between mirror and second splitter mirror.

Claim 13 (currently amended): An optical seal comparator in accordance with claim 1, 3, or 8 further comprising: a) a first liquid crystal panel with a polarizer, which place between first seal pattern and splitter mirror; b) a second liquid crystal panel and a polarizer, which place between second seal pattern and splitter mirror; c) an image display switching control unit, which having alternating electronic signal controlling on/off status of first liquid crystal panel and second liquid crystal panel alternatively

Claim 14 (currently amended): An optical seal comparator in accordance with claim 10, ~~furthermore~~ further comprising: a) a first liquid crystal panel with a polarizer, which place between first seal pattern and ~~first~~ splitter mirror; b) a second liquid crystal panel and a polarizer, which place between second seal pattern and second splitter mirror; c) an image display switching control unit, which having alternating electronic signal controlling on/off status of first liquid crystal panel and second liquid crystal panel alternatively.

Claim 15 (currently amended): An optical seal comparator in accordance with claim 1, 3, 8 or 10 further comprising an image display switching control unit which having alternating electronic signal controlling ~~on/off~~ brightness/darkness status of first light source and second light source alternatively.